

CITY OF MINNEAPOLIS AND SHAKOPEE MDEWAKANTON SIOUX COMMUNITY

Memorandum of Understanding



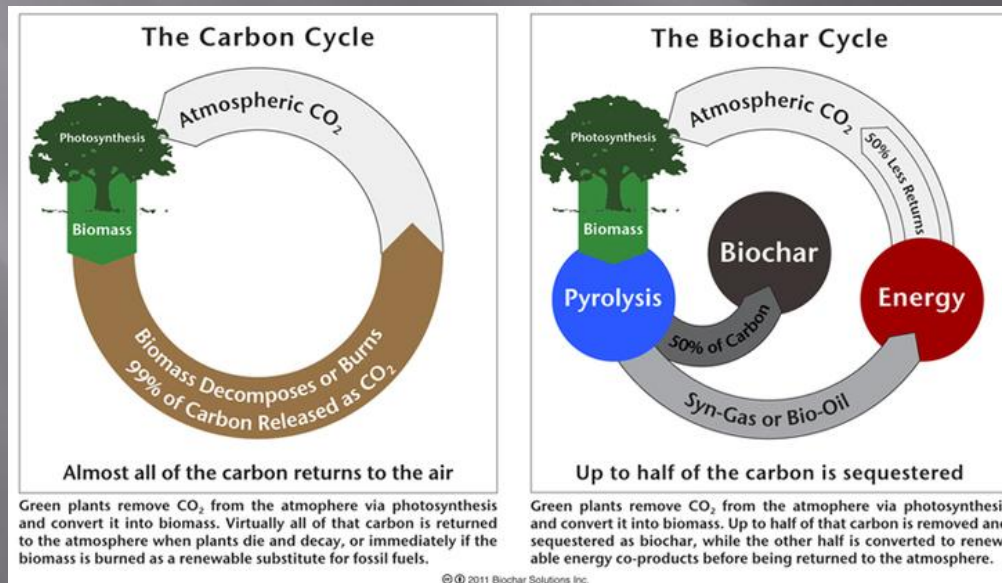
Terra Preta



What is Biochar

- ▣ Biochar is the carbon (C) rich product when biomass, such as wood, manure or leaves, is heated with little or no available oxygen.

International Biochar Initiative



Benefits of biochar

- ▣ Reduces carbon footprint of agriculture.
- ▣ Sequester carbon for over 1,000 years.
- ▣ Reduces nitrate run-off.
- ▣ Reduces erosion.
- ▣ Increases drought-resistance of crops.
- ▣ Reduces storm water run-off.
- ▣ Increases soil fertility or health.
- ▣ Increases crop yields.

Urban Challenges Addressed

- ▣ Improve health in minority communities.
- ▣ Decrease disparity in access to locally grown foods.
- ▣ Marginal urban soils for urban farming
- ▣ Emerald Ash Borer and public health.
- ▣ Storm damage to urban canopy
- ▣ Stress from climate change.

Cup of Coffee

- ▣ Mike Whitt
- ▣ Afghanistan
- ▣ Cup of Coffee
- ▣ A partnership is born



Proposal

- ▣ The City purchased biochar using its pollution impact fees as part of its environmental initiatives
- ▣ When mixed (charged) with compost, biochar is a powerful soil amendment.
- ▣ The Mdewakanton Sioux provide compost and land for demonstration plots.
- ▣ The City and the Mdewakanton Sioux work together through the compost facility to develop this soil amendment
- ▣ The City and The Mdewakanton Sioux work with community organizations to set up demonstration plots on the Mdewakanton Sioux land and in the Minneapolis urban core.

Demonstration Sites.

- ▣ Establish demonstration plots in the Philips neighborhood.
- ▣ Three plots: no treatment; compost; compost and biochar.
- ▣ Measure results.
- ▣ Education and Outreach

Comparison



Comparison



Stakeholders

- ▣ Indian Health Board
- ▣ 24th Street Urban Farming Coalition
- ▣ Women's Environmental Institute
- ▣ Dream of Wild Health
- ▣ Homegrown Minneapolis
- ▣ Morton Arboretum
- ▣ Minneapolis Park Board
- ▣ University of Minnesota
- ▣ University of Minnesota Extension
- ▣ United States Department of Agriculture

Conclusion

Desarrollos Agrícolas (DESA), Bolivia

